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(57) Abstract: The invention relates to a flexible tubular pipe (1) for the transfer of fluid in a field of offshore petroleum development. The invention pipe is of the type that consists of an impervious inner polymer sheath (3), one or more reinforcing layers comprising coils of reinforcing wires or metallic strips, or long composite elements (4,5,6), and at least one second polymer sheath such as an outer protective sheath (7) or an intermediate sheath (8). Said pipe is characterized in that the second polymer sheath (7, 8) is made from an elastomeric thermoplastic polymer (TPE).